

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/IB2004/003722

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B03C3/00 B01D53/32 B01D35/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01D B03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 890 103 A (KONISHI ET AL) 17 June 1975 (1975-06-17)	1,2, 7-16,25, 27,29-36 37-40
Y	column 3, line 46 - column 4, line 48; figure 4	
X	DATABASE WPI Section Ch, Week 197935 Derwent Publications Ltd., London, GB; Class J01, AN 1979-64277B XP002318742 & SU 633 607 A (CONS MAT IND GAS) 26 November 1978 (1978-11-26) abstract; figure	1,2, 5-15,25
X	DD 101 569 A1 (KISELEV ET AL) 12 November 1973 (1973-11-12) the whole document	1,7-15, 25
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

22 February 2005

Date of mailing of the International search report

04/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Eijkenboom, A

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/IB2004/003722

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 657 738 A (KANTER ET AL) 14 April 1987 (1987-04-14) figure 1	1
X	WO 88/08325 A (WESTINGHOUSE ELECTRIC CORPORATION) 3 November 1988 (1988-11-03) figures 1-5	1
X	US 5 066 316 A (IKEDA ET AL) 19 November 1991 (1991-11-19) figures 1-6	1
Y	DATABASE WPI Section Ch, Week 199334 Derwent Publications Ltd., London, GB; Class E36, AN 1993-269656 XP002318743 & JP 05 186209 A (NIPPON KASEI KK) 27 July 1993 (1993-07-27) abstract	37-40
A	DATABASE WPI Section Ch, Week 198411 Derwent Publications Ltd., London, GB; Class J01, AN 1984-067405 XP002318744 & SU 1 017 383 A (PROPHYLAXIS PNEUMOC) 15 May 1983 (1983-05-15) abstract; figure	1-40

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/JP2004/003722

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3890103	A	17-06-1975	JP 48031530 A JP 48030667 A JP 51019182 B JP 48033466 A JP 48044167 A JP 51019620 B JP 48050330 A JP 49044455 B	25-04-1973 23-04-1973 15-06-1976 10-05-1973 25-06-1973 18-06-1976 16-07-1973 28-11-1974
SU 633607	A	26-11-1978	SU 633607 A1	26-11-1978
DD 101569	A1	12-11-1973	NONE	
US 4657738	A	14-04-1987	CA 1277953 C DE 3515143 A1 GB 2158055 A ,B IL 74856 A JP 61018424 A KR 9210275 B1 SE 8501858 A	18-12-1990 31-10-1985 06-11-1985 31-07-1988 27-01-1986 21-11-1992 31-10-1985
WO 8808325	A	03-11-1988	US 4818355 A ES 2006640 A6 PT 87336 A ,B WO 8808325 A1	04-04-1989 01-05-1989 12-05-1989 03-11-1988
US 5066316	A	19-11-1991	JP 2503839 Y2 JP 3059049 U JP 3059050 U JP 3059051 U DE 4031382 A1	03-07-1996 10-06-1991 10-06-1991 10-06-1991 18-04-1991
JP 5186209	A	27-07-1993	NONE	
SU 1017383	A	15-05-1983	SU 1017383 A2	15-05-1983